

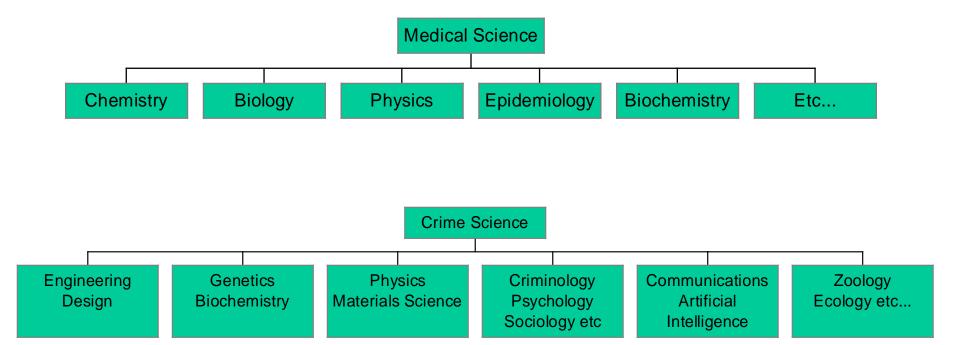
The International Crime Science Network

Nick Tilley
UCL Jill Dando Institute of Crime
Science





Medical Science and Crime Science



British moves to mobilise science

- Foresight Programme
- Home Office Scientific Development Branch (HOSDB)
- Home Office Chief Scientist
- Engineering and Physical Sciences Research Council (EPSRC)
- Jill Dando Institute of Crime Science

Foresight Programme: Some Potential New Technology Areas Relevant to Crime Prevention

Forensic Science miniaturised on-site analysis instruments for scene-of-crime

applications higher sensitivity techniques, including DNA

analysis

Adulteration of foodstuffs tamper detection

food safety monitoring

Anti-terrorism personnel screening

luggage, freight and vehicle scanning

explosive detection

Person detection DNA techniques

personal characteristics (visual features, odour,

eye/finger/palm patterns

Image processing

New imaging techniques

Illegal drugs new and portable identification techniques

use of markers

Property protection unique markers (electronic and chemical)

Vehicle security access control / driver recognition, tracking techniques

Building security access control, intruder identification by personal signature

E-trading / commercial

communications

encryption, unique identities

Security printing advanced printing technologies, including electronic markers

Crime detection and incre

security control

increased efficiencies in database communications,

intelligent management of facilities and anti-crime projects

Offender tracking and

identification

new techniques based in electronic and chemical labelling

Crime Science Network

- One of six crime-related networks funded by EPSRC
- Based at Jill Dando Institute of Crime Science, UCL
- Headed by Gloria Laycock and Nick Tilley
- Funded for 2004-2007 £60,000 (just over \$100,000)
- Aims to foster scientists' informed interest in crime prevention and detection
- Aims to include all scientific disciplines

Other EPSRC funded crime networks

- ICARIS (International Centre for Advanced Research in Identification Science)
- SERVE (Surveillance, Evaluation, Research, Validation, and Exploitation)
- ViTAB (Video-based Threat Assessment and Biometrics)
- IRIS (Integrating Research and Industrial Biometrics Strategies)
- GIMI (Geoforensics and information management for crime investigation)

The network's programme of work

Seminar series

- 2004-5: Four police/scientist seminars three based in regional police services
- 2005-6: Four thematic seminars, based in the Home Office and UCL (organised crime, white collar crime, design and crime, terrorism)
- 2006-7: planned specific problem focused brainstorming meetings
- 2007: National conference: July 19-21 2007
- Website (http://www.jdi.ucl.ac.uk/cs_network/index.php)
- Proposed journal

Rationale for the network

- Encouraging police to think science and scientists to think crime
- Improving use of scientific and technological developments, e.g. DNA database
- Improving application of situational crime prevention
- Getting crime prevention into the design of products and services that may foster crime
- Drawing on a wide range of science and technology in efforts to prevent and detect crime
- Spotting the relevance of emerging science for understanding and dealing with crime
- Enhancing the use of the scientific method in dealing with crime

Examples

- Design of cars, car parks and car registration arrangements that reducing crime opportunities
- Development of predictive crime mapping
- Tracking perturbations in internet communications to anticipate civil disturbance
- Design of bomb-proof litter bins

Challenges

- Communication
 - Scientists to police
 - Police to scientists
- Stimulating scientists' interests
- Specifying a researchable question for scientists
- Publication imperatives for scientists
- Traditional academic division of labor
- Assumption that forensic science is all that is relevant
- Long term research vs short-term police needs

The future: potential means of fostering engagement

- The continued International Crime Science Network
- The crime science journal
- Regular international meetings
- Continued targeted funding regimes
- Private sector search for commercial opportunities?
- Web-based discussion forums for scientists and police?
- Development of brokers, acting as science/police matchmakers?
- Problem-specific science-practitioner events?

For your diaries...

International Crime Science Conference

Science, Crime, Security: Making Connections

Begins: Thursday 19th July 2007, 2.00pm

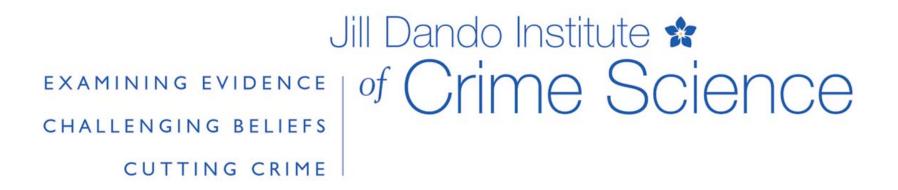
Ends: Saturday 21st July 2007, 12.30pm

Location: London University

For: Researchers, Police Personnel, and Policy Makers

Details will be available on: www.jdi.ucl.ac.uk/cs_network/index.php





Jill Dando Institute at UCL: www.jdi.ucl.ac.uk

Network: www.jdi.ucl.ac.uk/cs_network/index.php

UCL UCL

Nick Tilley: NickJTilley@aol.com

